Amendments to the Claims

Please cancel claims 10, 18 and 26 without prejudice. Please amend the remaining claims as shown below in the List of Claims.

Listing of Claims

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1-8. (Cancelled)

- (Currently amended) A process for obtaining a purified gas by removing polysulfanes from crude gas formed during the production of hydrogen sulfide, wherein said crude gas comprises greater than 80% by volume of H_2S and 100-2000 vpm of polysulfanes of the formula H_2S_n , wherein n = 2-8, said process comprising:
 - a) passing said crude gas through a wash system where said crude gas is brought into contact with a wash solution comprising water or methanol; and
 - b) collecting said purified gas from the wash solution of step a).
- 10. (Cancelled)
- (Currently amended) The process of elaim 10 claim 8, wherein said polysulfanes are present in said crude gas at 400-1500 vpm.
- 3 12. (Previously presented) The process of claim 8, wherein said wash system is a jet washer.
- (Previously presented) The process of claim, further comprising a second wash step in which the purified gas produced in step a) is passed through a counter-current washer comprising an aqueous or methanolic solution.
 - (Previously presented) The process of claim \emptyset , further comprising a second wash step in which the purified gas produced in step a) is passed through an adsorber bed.

6 15.

(Previously presented) The process of claim β , wherein relative to said crude gas, the polysulfanes in said purified gas have been reduced by 50-99.5%.

7 16.

(Previously presented) The process of claim 9, wherein said process is carried out at a temperature of 0-150°C.

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(Currently amended) A process for obtaining a purified gas by removing polysulfanes from crude gas formed during the production of hydrogen sulfide, wherein said crude gas comprises greater than 80% by volume of H_2S and 100-2000 vpm of polysulfanes of the formula H_2S_0 , wherein n = 2-8, and wherein said process comprises comprising:

- a) passing said crude gas through a wash system comprising an aqueous or methanolic solution containing 0.5-20 wt% of an alkali or alkaline earth hydroxide or oxide; and
- b) collecting said purified gas from the aqueous or methanolic solution of step a).

18. (Cancelled)

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9 19. (Previously presented) The process of claim 18, wherein said polysulfanes are present in said crude gas at 400-1500 vpm.

10 .20. (Previously presented) The process of claim 17, wherein relative to said crude gas, the polysulfanes in said purified gas have been reduced by 50-99.5%.

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21. (Previously presented) The process of claim 17, wherein said wash system is a jet washer and said process further comprises a second wash step in which the purified gas of step a) is passed through either: a counter-current washer comprising an aqueous or methanolic solution; or an adsorber bed.

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22. (Currently amended) A process for obtaining a purified gas by removing polysulfanes from crude gas formed during the production of hydrogen sulfide, wherein said crude gas comprises greater than 80% by volume of H₂S and 100-2000 vpm of polysulfanes

of the formula H_2S_n , wherein n = 2-8, and wherein said process comprises comprising:

- a) passing said crude gas through a wash system comprising an aqueous or methanolic solution containing 1-20 wt% of a compound selected from the group consisting of:
 - i) an organic amine of the formula $(C_nH_{2n+1})_xNH_y$, where n = 1-3, x = 2 or 3, and y = 0 or 1;
 - ii) an amino alcohol of formula $(C_nH_{2n+1}O)_xNH_y$, where n=1-3, x=2 or 3, and y=0 or 1; and
 - iii) ammonia;
- collecting said purified gas from the aqueous or methanolic solution of step a).
- (Previously presented) The process of claim 22, wherein said compound is an organic amine of the formula $(C_nH_{2n+1})_xNH_y$, where n = 1-3, x = 2 or 3, and y = 0 or 1.
- (Previously presented) The process of claim 22, wherein said compound is an amino alcohol of formula $(C_nH_{2n+1}O)_xNH_y$, where n = 1-3, x = 2 or 3, and y = 0 or 1.
- 15. (Previously presented) The process of claim 22, wherein said compound is ammonia.
- 26. (Cancelled)
- (Previously presented) The process of claim 22, wherein relative to said crude gas, the polysulfanes in said purified gas have been reduced by 50-99.5%
- (Previously presented) The process of claim 22, wherein said wash system is a jet washer and said process further comprises a second wash step in which the purified gas of step a) is passed through either: a counter-current washer comprising an aqueous or methanolic solution; or an adsorber bed.